CITY OF RIVERSIDE

5230

12/89 Revised

HUMAN RESOURCES DEPARTMENT CLASSIFICATION SPECIFICATION

TITLE:

INSTRUMENT TECHNICIAN

DEFINITION

Under general supervision, to perform skilled electrical and electronic work in the maintenance, repair and calibration of automatic and manual metering, telemetering, control and alarm systems and equipment; and to do related work as required.

DISTINGUISHING CHARACTERISTICS

REPORTS TO:

SUPERVISION RECEIVED AND EXERCISED

EXAMPLES OF DUTIES

Duties may include, but are not limited to, the following:

- Troubleshoot problems in electrical and electronic systems, reading and interpreting blueprints, wire diagrams and schematics, and utilizing a variety of test equipment.
- Test, clean, repair, rebuild and calibrate metering and telemetering equipment.
- Test, clean, repair, calibrate and reprogram microprocessor and instrumentation systems and equipment.
- Maintain, repair and balance electronic systems for variable speed pump controls.
- Maintain and repair electrical and electronic operational control, recording and alarm systems and equipment.

QUALIFICATIONS

Knowledge of:

- Practices, procedures, tools and equipment used in the installation, testing and repair of electronic systems, meters, telemetering and instrumentation equipment, microprocessors and related items.
- Principles of electronic circuitry systems, meter, telemetering, instrumentation, microprocessors and similar equipment.
- Occupational hazards and safety precautions necessary in the work.

Ability to:

- Work with independence and make decisions relative to work methods.
- Troubleshoot, locate, correct and repair defects in instrumentation and electronic control equipment.
- Operate a variety of electronic diagnostic equipment.
- Interpret plans, blueprints, wiring diagrams and schematics.

- Understand and carry out oral and written instructions.
- · Work overtime as required.

Education and Experience:

Any combination of experience and education that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

Education: Equivalent to completion of the twelfth grade supplemented by completion of a certificate

program in electronics.

Experience: Three years' experience in electrical and electronic instrumentation system installation,

maintenance and repair, preferably involving water or wastewater plant treatment

processes.

MEDICAL CATEGORY: Group 2

NECESSARY SPECIAL REQUIREMENT

Possession of or ability to obtain an appropriate, valid California motor vehicle operator's license.

CAREER ADVANCEMENT OPPORTUNITIES

FROM:

TO: